

PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: H. Struszczyk, *et al.*

Serial No.: 10/501,174

Filed: March 15, 2005

For: METHOD FOR
DEPROTEINIZATION OF
CHITOSAN

Examiner: (not assigned)

Group Art Unit: (not assigned)

Case No.: 7007.US.01

CERTIFICATE OF MAILING (37 CFR
1.8 (a))

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the:

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450, on:

Date of Deposit: Sept. 7, 2005

Kathleen Boettcher 9/7/05
Kathleen Boettcher Date

TRANSMITTAL LETTER

Mail Stop Amendment
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed herewith is an Information Disclosure Statement for H. Struszczyk, *et al.*, for METHOD FOR DEPROTEINIZATION OF CHITOSAN, the specification of which was filed on March 15, 2005, and received Serial No. 10/501,174.

Also enclosed are: Form PTO 1449 (in duplicate) w/fifteen (15) references
Return-receipt postcard

The Commissioner is hereby authorized to charge any additional Filing Fees required under 37 CFR 1.16, as well as any patent application processing fees under 37 CFR 1.17 associated with this communication for which full payment has not been tendered, to Deposit Account No. 01-0025. A duplicate copy of this sheet is enclosed.

ABBOTT LABORATORIES
Customer Number: 23492
Telephone: (847) 937-4558
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Respectfully submitted,
H. Struszczyk, *et al.*

Patricia Coleman James
Patricia Coleman James
Registration No. 37,155
Attorney for Applicants



PATENT

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INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The following information is submitted, pursuant to 37 CFR §§1.97-1.98 in accordance with Applicant's duty of disclosure under 37 CFR §1.56. This submission is not intended to constitute an admission that any patent, publication or other information cited herein is "prior art" as to the invention claimed. In accordance with 37 CFR §§1.97(g)-(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that other material information as defined by 37 CFR §1.56(a) exists.

Applicants submit herewith Form PTO-1449 listing the references known to them. Applicants respectfully request that the Examiner (1) initial each reference listed on the enclosed Form PTO-1449 indicating that the Examiner has considered and made those references of record in this application and (2) return a copy of the initialed Form PTO-1449 to Applicants. Copies of all cited documents have been included except any U.S. patent.

No charge is required for the submission of this Information Disclosure Statement under 37 C.F.R. § 1.97 (b). The Commissioner is hereby authorized to charge any additional filing fees required under 37 C.F.R. § 1.17 concerning this transmission, or to credit any overpayment to Deposit Account No. 01-0025.

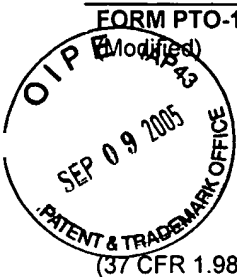
Respectfully submitted,
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DATE: Sept. 7, 2005SHEET 1 of 2

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98 (b))

ATTY. DOCKET NO.

7007US01

SERIAL NO.

10/501,174

APPLICANT

Struszczyk, H., et al.

FILING DATE

March 15, 2005

GROUP

1753

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
	A1	3	5	3	3	9	4	0	10/13/70	Peniston & Johnson			
	A2	3	8	6	2	1	2	2	01/21/75	Peniston, et al.			
	A3	4	0	6	6	7	3	5	01/03/78	Peniston, et al.			
	A4	4	1	9	5	1	7	5	03/25/80	Peniston, et al.			
	A5	4	1	9	9	4	9	6	04/22/80	Peniston, et al.			
	A6	5	0	5	3	1	1	3	10/01/91	Krepets, et al.			
	A7	5	6	2	3	0	6	4	04/22/97	Vournakis, et al.			
	A8	5	6	2	4	6	7	9	04/29/97	Vournakis, et al.			
	A9	6	3	1	0	1	8	8	10/30/2001	Mukherjee			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER							PUBLI- CATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION	
	B1	2	0	8	7	4	8	3	20.08.97	RU			YES	NO
	B2	9	1	0	0	2	9	8	10.01.97	WO				
	B3	0	1	3	2	7	5	1	10.05.2001	WO				
	B4	0	1	8	7	9	8	8	22.11.2001	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	C1	Bough, W.A., et al., "Influence of Manufacturing Variables on the Characteristics and Effectiveness of Chitosan Products. ... " <i>Biotech & Bioengin</i> , 20:1931-1943 (1978)
	C2	Chen, R. H., et al., "Effects of pH, ionic strength, and type of anion on the rheological properties of chitosan solutions", <i>Acta Polymer</i> , 45:41-46 (1994)
	C3	Gagné & Simpson, "Use of Proteolytic Enzymes to Facilitate the Recovery of Chitin from Shrimp Wastes", <i>Food Biotechnology</i> , 7(3):253-263 (1993)
	C4	Ha, Y.L., et al., "Newly Recognized Anticarcinogenic Fatty Acids: Identification and Quantification in Natural and Processed Cheeses", <i>Amer Chem Soc.</i> , 37:75-81 (1989)
	C5	Higeta, Patent Abstracts of Japan, 012(186), (31.05.1988 abd 19.12.87)
	C6	Madhavan & Nair, "Utilization of Prawn Waste - Isolation of Chitin and its Conversion to Chitosan", <i>Fishery Tech.</i> , 11:50-53 (1974)
	C7	Mitra A.K., et al., "Methyl 2,6-Di-O-methylsulfonyl- α -D-glucopyranoside and New Syntheses of 3,4-Di- and 3,4,6-Tri-O-methyl-D-glucose", <i>Journ of Organic Chem.</i> , 27:161 (1962)
	C8	Moorjani, M.N., et al., "Parameters Affecting the Viscosity of Chitosan from Prawn Waste", 12:187 (1975)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449)

DATE: Sept. 7, 2005SHEET 2 of 2

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

7007US01

10/501,174

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT

Struszczyk, H., et al.

FILING DATE

GROUP

March 15, 2005

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(37 CFR 1.98 (b))

U.S. PATENT DOCUMENTS

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLI- CATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION
							YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C9	No, H.K., et al., "Isolation and Characterization of Chitin from Crawfish Shell Waste", <i>Journ of Agric and Food Chem</i> , 37(3): 575-579 (1989)
C10	Peiffer, D.G., "The Molecular Factors Affecting the Solubility Parameter", <i>Journ of Appl Polymer Sci</i> , 25:369-380 (1980)
C11	Shahidi & Synowiecki, "Isolation and Characterization of Nutrients and Value-Added Products from Snow Crab (<i>Chionoecetes opilio</i>) and Shrimp (<i>Pandalus borealis</i>) Processing Discards", <i>J. Agric Food Chem</i> , 37:1527-1532

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